

ABSTRACT

This invention relates to the field of measurement methods for determining the blood flow rate  $Q_F$  in blood carrying lines (40). It may be used in particular to determine the blood flow in a patient's vessel, which is connected to the extracorporeal circulation (2) of a blood treatment machine by an arterial line (14) and a venous line (15). According to this invention, the net rate  $dX/dt$  of a variable  $X$  which is derived from a physicochemical variable  $Y$  of the blood with the help of values  $Y_A$  and  $Y_V$  which are adequately constant over time, these values characterizing the physicochemical property in the arterial line (14) and the venous line (15) during the measurement interval. The net rate  $dX/dt$  is then used to determine the blood flow rate  $Q_F$ . The targeted use of indicators is not necessary.

Fig. 1